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SUBJECT AND AUTHOR INDEX VOLUMES 31 TO 42 · 1969 TO 1970

SUBJECT AND AUTHOR INDEX (a) VOLUMES 1 TO 3 · 1970

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SUBJECT AND AUTHOR INDEX

Volumes 31 to 42, 1969 to 1970

Volumes 1 to 3, 1970

Edited by

W. BORCHARDT† and E. BORCHARDT



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Preface

Recently, "physica status solidi" lost in a tragical way the editor of the "Subject and Author Index". So I have tried to finish this work of my husband's according to his ideas.

The third Index contains volumes 31 to 42 of "physica status solidi" (from January, 1971, "physica status solidi (b) — basic research") as well as volumes 1 to 3 of "physica status solidi (a) — applied research", i. e. altogether about 2000 papers. This is the first publication of a common register for both series of the journal.

The basis for quoting is the Subject Classification given for every paper in the respective issue. Since the classification scheme has slightly changed from January, 1971, on, the Subject Classification for every paper was adapted to that new classification scheme to spare our readers the parallel use of two different schemes. At the same time some improvements and completions have been done in the course of checking the individual papers to give the classification of all papers more unity and clearness. The average number of quotations per paper has increased from 3.1 in the second Index Volume to 3.3 in the third one.

Again I have to express our thanks to the readers for their interest, and I will always readily take up any critical remark and proposal for improvements. I am specially obliged to Prof. Dr. P. Görlich, Prof. Dr. E. Gutsche, Dr. H.-J. Hänsch, Dr. S. Oberländer, and Dipl. Phys. K. Wannewitz for giving me advice and unselfish help while finishing this work. Furthermore I have to thank Mrs. E. Schwan for her exact and reliable secretary's work at the manuscript.

Berlin, April 1971

Eva Borchard

Classification Scheme

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For comments on the use of classification scheme see p. 6.

Some Comments on the Use of the Subject Classification and the Alphabetic Author Index

The classification system¹⁾ comprises 20 broad sections each devoted to a major field of solid state physics and 3 broad sections devoted to the main groups of substances. A section may contain a number of subsections dealing with aspects of this field or special substance, respectively, which tend to receive particular attention. A paper dealing with this field will either be classified under one or more of the subsections or, if none of these are relevant, it will just appear under the general section heading (i. e. sections and subsections are equivalent in this sense). For example, a paper dealing with problems of band structure would appear under 13.1 but not 13, whereas a paper on polaron states would be quoted under 13; a paper dealing with GaP would appear under 22.2.2, not under 22 or 22.2, whereas a paper on AlN would be quoted under 22.2, and a paper on a II-IV or a IV-VI compound would be quoted under 22.

All papers will be quoted under each relevant section. There is made a distinction between one or two principal entries (referring to the main subject matter of the paper) and secondary entries (referring to subsidiary subject matter and substance, respectively). In the principal entries the title of the paper is given in its original language and in English. In addition, every principal entry is marked by * in front of the title of the paper. In the secondary entries the title is only given in English.

Each entry gives the volume, the number of the issue, the initial and final page numbers, and the year in which the paper appeared. A paper of *physica status solidi* (a) is marked by (a) in front of the line. The letter "K" before the page numbers indicates a short note published in the off-set part of the journal. Each entry is followed by references to the other entries. These references give the subject classifications and the pages in the index where the other entries appear. The references to the principal entries are given in italics.

Review articles appear at the head of the list of entries under a given subject and are given the subtitle 'Review Articles'. These articles are listed in the chronological order of their publication, irrespective of being a paper of *physica status solidi* or *physica status solidi* (a). The subject classification for a review article consisting of several parts is based on the article as a whole rather than on the individual parts.

The entries for original papers and short notes are made together in a single list for each subject and this follows the entries for review articles. These are again ordered according to date of publication, irrespective of being a paper of *physica status solidi* or *physica status solidi* (a). Original papers are sometimes published in several parts under the same principal title (occasionally with special subtitles). The various parts of papers of this type are treated separately and each part is classified according to its particular contents.

¹⁾ See cover two and three, and pages 4 and 5. For the case of losing the cover by book-binding we repeat the classification scheme on pages 4 and 5.

In using the subject index attention should be given to the following details:

subject	quoted in	remarks
representations of space groups	3 and 13.1	
plastic deformations	10 or 10.1	not in 12 or 12.1
colour centres	10.2	not in 20.1 or 20.3*), X-ray coloration not in 11
plasmons, Alfvén waves, helicon waves	13 and 20	
hot electrons	13 and 14.3	possibly another subsection of 14 instead of 14.3
transport phenomena	14 or subsection of 14	if not clearly to be assigned to 8 or 15
galvanomagnetic effects	14 or subsection of 14	not in 18
electro-optical effects	14 and 20 (or subsection of 14 and 20)	generally not in 20.1
piezoelectricity, electrostriction	14 or subsection of 14	not in 12 or 12.1; different electro-mechanical effects are quoted in 12 or 12.1
ionic conduction	14.4	not in 14.3
magneto-optical effects	18 and 20	possibly in additional sections, e. g. Faraday effect in 13
ferromagnetic domains	18.2 or 18.2.1	not in 4*)
ferroelectric domains	14.4.2	not in 4*)
ferromagnetic films	18.2.1	not additionally in 1.4*)
X-ray spectra	20	but not X-ray studies of structure
X-ray diffraction investigations	1, 4, 5, 10 or 10.1	not in 11*)
field emission microscope investigations	17.1	not in 17*)

*) These are changes in the classification scheme taking place from January 1971.

substance	quoted in	remarks
II-V and III-VI compounds*	22.3	not 22*)
mixed crystals of III-V compounds	22.2.4	not additionally in 22.8*)
mixed crystals of IV-IV, II-V, and III-VI compounds	22.3.1	not additionally in 22.8*)
mixed crystals of II-VI compounds	22.4.4	not additionally in 22.8*)
mixed crystals of halides	22.5.4	not additionally in 22.8*)
mixed crystals of oxides	22.6.1	not additionally in 22.8*)
CdO, ZnO	22.4	not in 22.6
spinels	18.3 or 14.4.2	not in 22.6
salts of oxy-acids (carbonates, phosphates, silicates, including mica etc.)	22.8.1	not in 22.8*)
MIS and MOS structures	the section assigned to the semiconductor	not in the section assigned to the oxide or the metal
MIM structures	the section assigned to the insulator	generally not in the section assigned to the metal
epitaxial layers	the section assigned to the layer	not in the section assigned to the substrate
alnico and permalloy	21.1.1	not additionally in 21 and 21.1

*) These are changes in the classification scheme taking place from January 1971.

The autor index gives the names of the authors in alphabetical order. Each name is followed by the bibliographic details of the paper and the numbers of the pages on which the paper appears in the subject index. A paper of physica status solidi (a) is again marked by (a) in front of the number of the volume. The principal entry is again given in italics. When several papers have been published by the same author they are arranged according to the dates of publication, irrespective of being a paper of physica status solidi or physica status solidi (a).

Subject Index

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Original Papers and Short Notes

S. I. RADAUTSAN, A. E. TSURKAN, and O. G. MAKSIMOVA

*The Phase Diagram of $\text{Zn}_x\text{Cd}_{1-x}\text{Te}$ Solid Solutions

Vol. **37**, No. 1, p. K9—K11 (1970).

See also 1.2, p. 15; 14.3, p. 288; 22.4.4, p. 604.

P. G. RUSTAMOV, B. B. KULIEV, M. A. ALIYANOV, and E. M. KULIEV

On Interaction of Tin Telluride with GaTe

(a) Vol. **3**, No. 2, p. K139—K141 (1970).

See also 7, p. 93; 22.3.1, p. 587.

M. P. TYRZIU, S. I. RADAUTSAN, M. M. MARKUS, and S. M. KOLOSENKO

*State Diagram of $\text{CnSe}-\text{Ga}_2\text{Se}_3$

(a) Vol. **3**, No. 4, p. K293—K296 (1970).

See also 3.1, p. 43; 4, p. 57; 5, p. 64; 12, p. 179; 13.1, p. 223; 22.3, p. 586; 22.4.2, p. 601.

1.1 Alloys. Metallurgy**Review Article**

G. P. SABOL and R. STICKLER

*Microstructure of Nickel-Based Superalloys

Vol. 35, No. 1, p. 11—52 (1969).

See also 1.2, p. 12; 4, p. 49; 21.1, p. 473.

Original Papers and Short Notes

S. RADELAAR and J. M. J. RITZEN

*Measurements of the Zener Effect and Kinetics of Short-Range Order in Two Au-Cu Alloys (Containing 14 and 25 at% Cu)

Vol. 31, No. 1, p. 277—283 (1969).

See also 10.1, p. 129; 12.1, p. 180; 14.1, p. 267; 21.1, p. 474; 21.6, p. 514.

G. AIROLDI and M. ASDENTE

*Short- and Long-Range Order in Au_3Cu

Vol. 32, No. 2, p. 691—694 (1969).

See also 13.1, p. 205; 14.1, p. 268; 15, p. 337; 21.1, p. 475; 21.6, p. 515.

P. GUYOT

Orientation Contrast from Inclusions (Experiment)

Vol. 33, No. 1, p. 201—208 (1969).

See also 1.4, p. 22; 4, p. 50; 21, p. 455.

J. TH. CHARDON and S. RADELAAR

*Resistance Measurements of the Kinetics of the Elastic After-Effect in AuCu (75, 25) and AgZn (69, 31)

Vol. 33, No. 1, p. 439—443 (1969).

See also 10.1, p. 133; 12.1, p. 181; 14.1, p. 268; 21.1, p. 476; 21.6, p. 515.

S. C. H. LIN and P. DUWEZ

*Structure of an Amorphous FePC Alloy

Vol. 34, No. 2, p. 469—474 (1969).

See also 2, p. 26; 21.1.1, p. 495.

M. SCHOIJET

*A Quasichemical Theory for a Short Range Ordered Alloy with Vacancies

Vol. 35, No. 1, p. 469—473 (1969).

See also 3.2, p. 44; 10.1, p. 136; 21, p. 458.

M. SCHOIJET

*Vineyard's Theory of the Kinetics of Ordering and Lidiard's Consistency Conditions

Vol. 35, No. 1, p. 475—480 (1969).

See also 3.2, p. 44; 10.1, p. 136; 21.1, p. 478; 21.6, p. 516.

K. H. J. BUSCHOW and A. S. VAN DER GOOT

Phase Relations, Crystal Structures, and Magnetic Properties of Erbium-Iron Compounds

Vol. 35, No. 1, p. 515—522 (1969).

See also 3, p. 34; 5, p. 60; 18.3, p. 385; 21.1.1, p. 497.

H. J. KLEIN, C. R. BROOKS, and E. E. STANSBURY

*The Establishment of Long-Range Order in Ni_2Cr Using Electron Microscopy

Vol. 38, No. 2, p. 831—836 (1970).

See also 4, p. 54; 21.1, p. 483.

A. K. DUA, M. C. NAIK, and R. P. AGARWALA

Mass Transport Studies in Nickel-Liquid Tellurium System

(a) Vol. 2, No. 1, p. 131—136 (1970).

See also 2, p. 28; 9, p. 107; 21.1, p. 484; 22.1.3, p. 563.

M. L. TURELLI

*Contribution to the Study about the Gamma-Phase Precipitation in Alnico Alloys

(a) Vol. 2, No. 1, p. K45—K47 (1970).

See also 4, p. 54; 21.1.1, p. 499.

J. KOUNICKÝ

Crystallography of Deformation Twinning of Martensite in Alloy Fe-25.2% Ni-0.5% C

(I): Habit Plane Determination

(a) Vol. 2, No. 3, p. 447—454 (1970).

See also 4, p. 55; 10.1, p. 145; 21.1, p. 486; 21.1.1, p. 500.

J. KOUNICKÝ

Crystallography of Deformation Twinning of Martensite in Alloy Fe-25.2% Ni-0.5% C

(II): Twin Intersection Investigation

(a) Vol. 2, No. 3, p. 455—462 (1970).

See also 4, p. 55; 10.1, p. 145; 21.1, p. 486; 21.1.1, p. 500.

R. RAUTIOAHO and E. SUONINEN

A Study of Ordering in the Cu-Be β -Phase

(a) Vol. 2, No. 3, p. 493—496 (1970).

See also 1.2, p. 17; 21.1, p. 486; 21.3, p. 509.

E. L. MATHÉ, J. P. RIVIÈRE, and J. GRILHE

*Study of Precipitate Nucleation in Iron-Carbonyl Alloy

(a) Vol. 3, No. 1, p. 201—208 (1970).

See also 10.1, p. 147; 21.1.1, p. 502.

C. F. VAROTTO and A. E. VIDOZ

On the Effect of Structure on the Electrical Resistivity of Some Ordering Solid Solutions

(a) Vol. 3, No. 3, p. 697—706 (1970).

See also 10.1, p. 150; 14.1, p. 273; 21.1, p. 491; 21.1.1, p. 503; 21.6, p. 520.

1.2 Solid-State Phase Transformations

Review Article

G. P. SABOL and R. STICKLER

Microstructure of Nickel-Based Superalloys

Vol. **35**, No. 1, p. 11—52 (1969).

See also 1.1, p. 10; 4, p. 49; 21.1, p. 473.

Original Papers and Short Notes

Y. A. I. DUTCHAK, I. P. KLYUS, and V. YA. PROKHORENKO

The Effect of Impurities on the Thermoelectric Properties of Bi, Te, and Se at Phase Transitions

Vol. **31**, No. 1, p. 25—29 (1969).

See also 2, p. 26; 10, p. 110; 15, p. 337; 21.7, p. 521; 22.1.3, p. 561.

P. P. SALHOTRA, E. C. SUBBARAO, and P. VENKATESWARLU

*Electrical Conductance of Rubidium Nitrate

Vol. **31**, No. 1, p. 233—236 (1969).

See also 3, p. 32; 14.3, p. 280; 22.8.1, p. 657.

E. A. KRAVCHENKO, S. A. DEMBOVSKII, A. P. CHERNOV, and G. K. SEMIN

NQR-As⁷⁵ Spectra of Several Inorganic Chalcogens

Vol. **31**, No. 1, p. K19—K21 (1969).

See also 19, p. 395; 22.8, p. 647.

P. C. BURY and A. C. McLAREN

Pyroelectric Properties of Rubidium, Cesium, and Thallium Nitrates

Vol. **31**, No. 2, p. 799—806 (1969)

See also 3, p. 32; 8, p. 96; 14.4, p. 312; 22.8.1, p. 657.

V. P. ROMANOV, V. D. CHECHERSKII, and V. V. EREMENKO

On the Change of Mössbauer Spectra at the Low-Temperature Phase Transition in Magnetite

Vol. **31**, No. 2, p. K153—K156 (1969).

See also 6.1, p. 85; 18.3, p. 383.

G. ALEFELD

*Wasserstoff in Metallen als Beispiel für ein Gittergas mit Phasenumwandlungen

(Hydrogen Dissolved in Metals as Example of a Lattice Gas with Phase Transitions)

Vol. **32**, No. 1, p. 67—80 (1969).

See also 9, p. 103; 21, p. 453.

J. M. TROOSTER

Mössbauer Investigation of Ferroelectric Boracites

Vol. **32**, No. 1, p. 179—192 (1969).

See also 6.1, p. 85; 13.4, p. 240; 14.4.2, p. 331.

I. TÖDÖ and I. TATSUZAKI

Nuclear Spin-Lattice Relaxation in $\text{NH}_4\text{PF}_6 \times \text{NH}_4\text{F}$

Vol. **32**, No. 1, p. 263—267 (1969).

See also 14.4.2, p. 331; 19, p. 396; 22.5.4, p. 631; 22.8, p. 648.

B. J. BURRAGE and D. R. PITKETHLY

*Aragonite Transformations Observed in the Electron Microscope

Vol. **32**, No. 1, p. 399—405 (1969).

See also 4, p. 50; 10, p. 111; 22.8.1, p. 657.

R. MAILFERT, B. W. BATTERMAN, and J. J. HANAK

*Observations Related to the Order of the Low Temperature Structural Transformation in V_3Si and Nb_3Sn

Vol. **32**, No. 1, p. K67—K69 (1969).

See also 3, p. 32; 14.2, p. 276.

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3.2 Interatomic Forces

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7. Acoustic Properties of Solids

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*Retarding Field Measurements on Thermally Stimulated Exo-Electrons

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*CsF,Cs as a Low Work Function Layer on the GaAs Photocathode

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18. Magnetic Properties of Solids

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(a) Vol. 1, No. 4, p. 597—652 (1970).

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*Interband Faraday Rotation in Germanium

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*Dichroïsme circulaire magnétique de films minces de EuTe

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A. C. BOCCARA, J. FERRÉ and J. BADOZ

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- *Faraday Ellipticity of Hot Electrons in Many-Valley Semiconductors
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18.2.1 Ferromagnetic Films

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22.4.1 Sulphides

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22.4.3 Tellurides

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22.5 Halides

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22.5.1 Silver Halides

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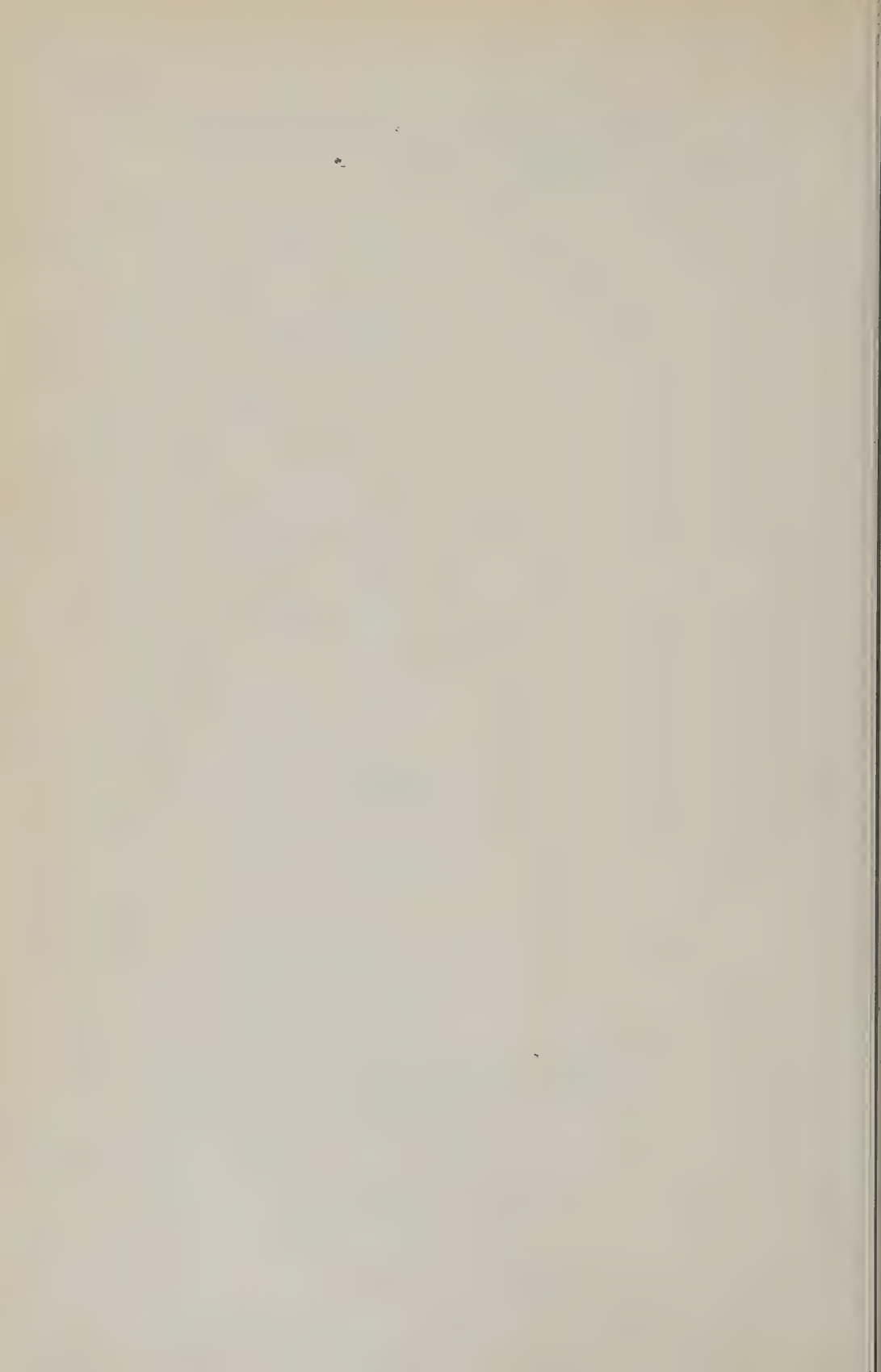
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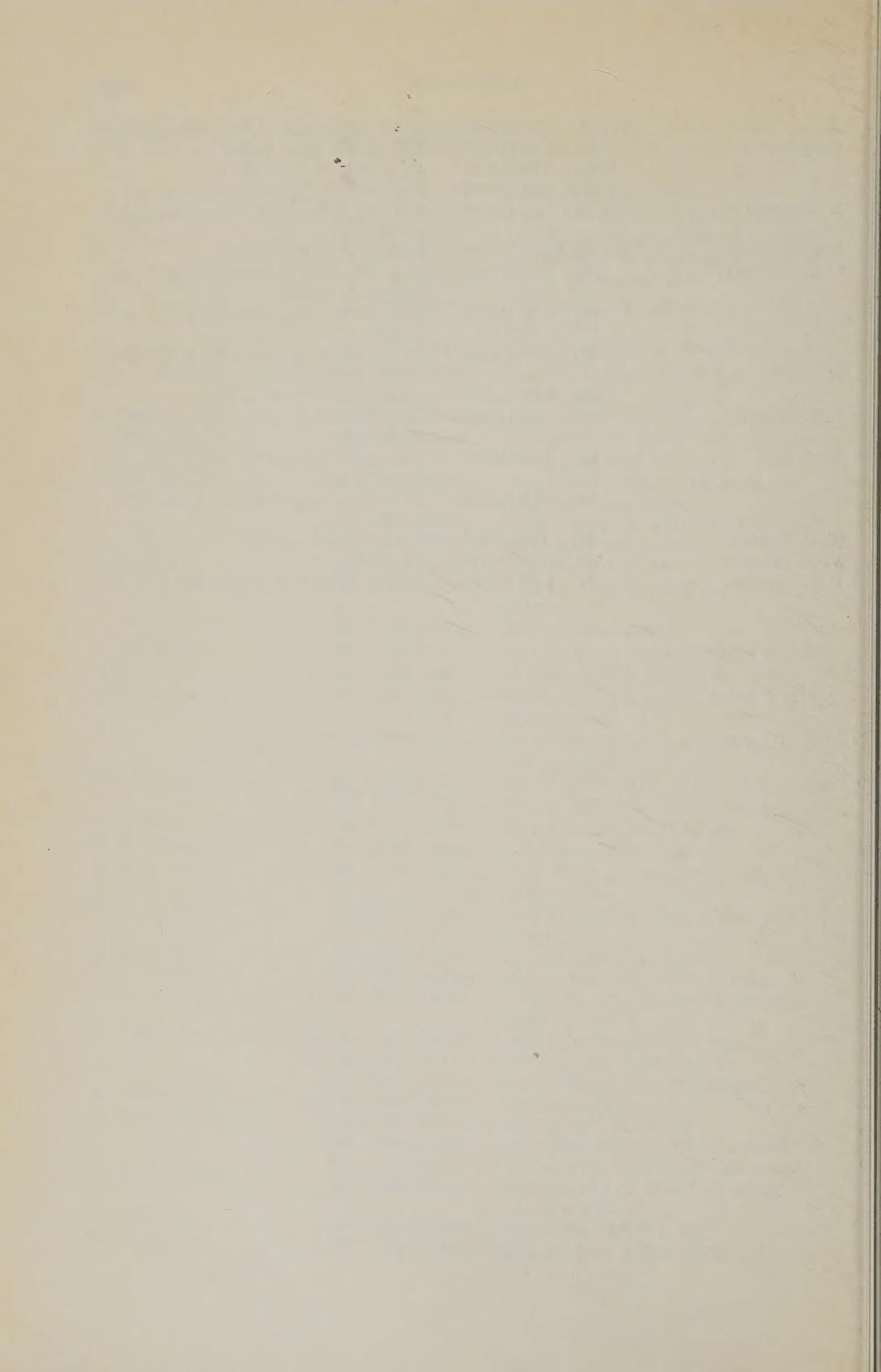
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Classification Scheme — Continued

- 18. Magnetic Properties of Solids
 - 18.1 Paramagnetic Properties
 - 18.2 Ferromagnetic Properties
 - 18.2.1 Ferromagnetic Films
 - 18.3 Ferrimagnetic Properties. Ferrites
 - 18.4 Antiferromagnetic Properties
- 19. Magnetic Resonance in Solids
- 20. Optical Properties of Solids
 - 20.1 Spectra. Optical Constants (Colour Centres See 10.2; X-Ray Spectra See 20)
 - 20.2 Lasers
 - 20.3 Luminescence of Solids (Colour Centres See 10.2; X-Ray Spectra See 20)
- 21. Metals. Alloys
 - 21.1 Transition Metals (Group Sc to Zn) and Their Alloys
 - 21.1.1 Fe and Fe Alloys
 - 21.2 Alkali Metals
 - 21.3 Alkali-Earth Metals
 - 21.4 Rare-Earth Metals
 - 21.5 Actinides
 - 21.6 Noble Metals
 - 21.7 Semi-Metals (Semiconducting Alloys See 22.7)
- 22. Semiconductors and Ionic Crystals
 - 22.1 Elements
 - 22.1.1 Germanium
 - 22.1.2 Silicon
 - 22.1.3 Group VI Elements
 - 22.2 III-V Compounds
 - 22.2.1 Arsenides
 - 22.2.2 Phosphides
 - 22.2.3 Antimonides
 - 22.2.4 Mixed Crystals
 - 22.3 IV-IV, II-V, and III-VI Compounds
 - 22.3.1 Mixed Crystals
 - 22.4 II-VI Compounds
 - 22.4.1 Sulphides
 - 22.4.2 Selenides
 - 22.4.3 Tellurides
 - 22.4.4 Mixed Crystals
 - 22.5 Halides
 - 22.5.1 Silver Halides
 - 22.5.2 Alkali Halides
 - 22.5.3 Alkali-Earth Halides
 - 22.5.4 Mixed Crystals
 - 22.6 Oxides (CdO, ZnO See 22.4; Spinel See 18.3 or 14.4.2)
 - 22.6.1 Mixed Crystals
 - 22.7 Semiconducting Intermetallic Compounds
 - 22.8 Tertiary and Higher Compounds
 - 22.8.1 Salts of Oxy-Acids (Carbonates, Phosphates, Silicates Including Mica etc.)
 - 22.9 Organic Semiconductors
- 23. Solidified Gases

For comments on the use of the classification scheme see p. 6

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